

2016 UDOT RESEARCH PROBLEM STATEMENT

*** Problem statement deadline is March 14, 2016. Submit statements to Tom Hales at tahales@utah.gov. ***

Title: Investigation of iPhone APP “Traffic Control on the Fly”

No. (office use): 16.04.03

Submitted By: Sara Colosimo

Organization: Riley Transportation Consultants

Email: scolosimo@rileytraffic.com

Phone: 801-641-1223

UDOT Champion (suggested): Rob Wight, PJ Roubinet, Shawn Lambert

Select One Subject Area

☐ Materials/Pavements

☐ Maintenance

☐ Traffic Mgmt/Safety

☒ Preconstruction

☐ Planning

☐ Public Transportation

1. Describe the problem to be addressed.

Often in design, construction and maintenance, a quick concept from the MUTCD, with needed signs, taper and buffer lengths is required. The MUTCD is large and cumbersome. The online version is slow, and difficult to navigate. The APP “Traffic Control on the Fly” provides a quick and user friendly information.

2. Explain why this research is important.

This APP has already been developed. A Research project is important to distribute it, and make necessary adjustments to the original version. If there is a satisfactory acceptance, Phase 2, of this project would create the updated iPhone version and in an Android format. The two different formats require completely different programming code.

3. List the research objective(s):

1. Distribute, educate, and revise as required, the existing APP “Traffic Control on the Fly”.
2. If warranted, develop iPhone APP in Android format.

4. List the major tasks:

1. Introduce and distribute existing APP, “Traffic Control on the Fly”
2. Implement changes and updates as required.
3. Make and implement recommendations, including ANDROID, or Web Based App.

5. List the expected results:

1. A useful, time-saving tool for Preconstruction, Construction, and Maintenance
2. Build awareness in multiple disciplines for mobile technology, APP development and usage within the UDOT.

6. Describe how this research will be implemented.

Develop a team from multiple disciplines to utilize and review APP. The goal is to have 200 active users. Users will download from the iTunes store, or a free Beta Test Group. Feedback will be incorporated as appropriate. An Android and or web/app will be developed as Phase 2 of the project.

7. Requested from UDOT: \$0/ phase I
Cost: \$10,000
(or UTA for Public Transportation)

Other/Matching Funds: \$10,000 Phase 2

Total

8. Outline the proposed schedule, including start and major event dates.

- Kick-off Meeting with Research Project Manager, to form Team to review APP.
2. Kick- Off meeting to Introduce the APP.
 3. Review Meeting to Discuss functionality of App, and propose modifications.
 4. Decision to expand APP to Android Format.